ABSTRACT OF THE DISCLOSURE

A transportation crew dispatch method is disclosed. A plurality of initial samples is generated at first. Each initial sample includes a two dimensional transportation crew dispatch coding table. The initial samples are assigned as parent samples. A sample estimation is performed based on object functions and confinement formulas. By rule of roulette wheel, selection possibilities of chromosomes with superior fitness values are increased. After performing processes of chromosome crossover and mutation responsive to the selection possibilities of single point cutting and double point cutting, a process of sample update is executed by partial gene exchange so as to select preferred samples. The fitness value of each sample is determined from business cost, satisfaction of fairness index, and the disobedient cost of the confinement formulas.